

Title (en)
Vacuum pumping system

Title (de)
Vakuum-Pumpstand

Title (fr)
Système de pompage à vide

Publication
EP 0723080 B1 19990922 (DE)

Application
EP 95116395 A 19951018

Priority
DE 19500823 A 19950113

Abstract (en)
[origin: EP0723080A1] A vessel is evacuated and a vacuum maintained by a first, radial, pump and throttle valve and a second, rotary piston, pump in a pipe parallel, and connected, to that for the first pump. Control valves enable the first pump to extract at higher pressure and the second at lower pressure. The vessel (1), required to be evacuated, is connected to a radial pump (4) through a throttle valve (5) and a pipe (7). A rotary piston pump (13) is connected to the pipe (7) at a junction point (11). Control valves (14,15) determine whether the first pump alone or the second pump in series reduces the pressure in the vessel, according to the pressure value. The second pump alone can function through a back-pressure valve (19) in a pipe (18).

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F04B 41/06; **F04B 37/14**; **F04D 25/16**; **F04D 19/04**; **F04C 23/00**; **F04C 25/02**

IPC 8 full level
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CPC (source: EP US)
F04B 37/14 (2013.01 - EP US); **F04B 41/06** (2013.01 - EP US); **F04C 23/005** (2013.01 - EP US); **F04C 25/02** (2013.01 - EP US); **F04D 19/046** (2013.01 - EP US); **F04D 25/16** (2013.01 - EP US)

Cited by
DE19630264A1; GB2331126A; GB2331126B; US6196810B1

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